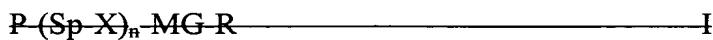


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently Amended)** ~~An anisotropic polymer layer exhibiting a tilted structure with an optical axis having a tilt angle θ relative to the plane of the layer, obtained by polymerizing a polymerizable mesogenic material comprising at least one compound of the formula:~~



wherein

~~P~~ is a polymerizable group;

~~Sp~~ is a spacer group having 1 to 20 C atoms;

~~X~~ is a group of O, S, CO, COO, OCO, OC₂O or a single bond,

~~n~~ is 0 or 1;

~~MG~~ is a mesogenic or mesogenicity supporting group;
and

~~R~~ is an alkyl radical with up to 25 C atoms optionally unsubstituted, mono- or polysubstituted by halogen or CN, optionally one or more non-adjacent CH₂ groups are replaced, independently, by O, S, NH, N(CH₃), CO, COO, OCO, OCO-O, S-CO, CO-S or C≡C where oxygen atoms are not linked directly to one another, or R is halogen, cyano or, independently, P-(Sp-X)_n as defined in formula I;

wherein the polymerizable mesogenic material is a mixture of:

A polymerizable mixture comprising:

a1) 10 to 99% by weight of at least one mesogen compound according to formula I having one polymerizable functional group,

a2) 0 to 70% by weight of at least one mesogen compound according to formula I having two or more polymerizable functional groups, and

b) 0.01 to 5% by weight of an initiator;

wherein the at least one compound of formula I is:

P-(Sp-X)_n-MG-R I

wherein

P is a polymerizable group,

Sp is a spacer group having 1 to 20 C atoms,

X is a group of -O-, -S-, -CO-, -COO-, -OCO-, -OCOO- or a single bond,

n is 0 or 1,

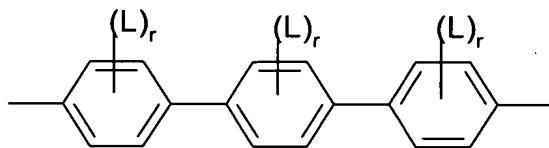
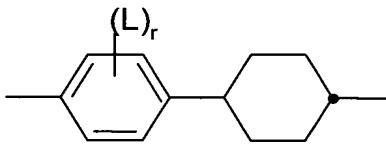
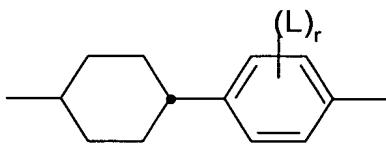
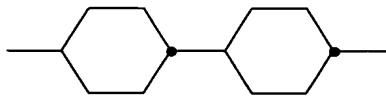
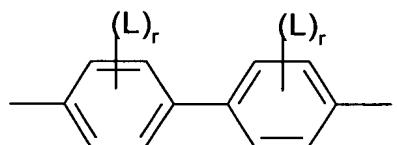
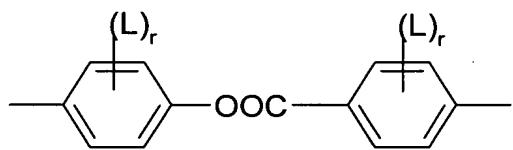
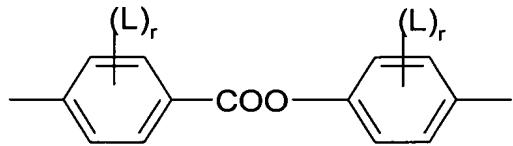
MG is a mesogenic or mesogenicity supporting group;

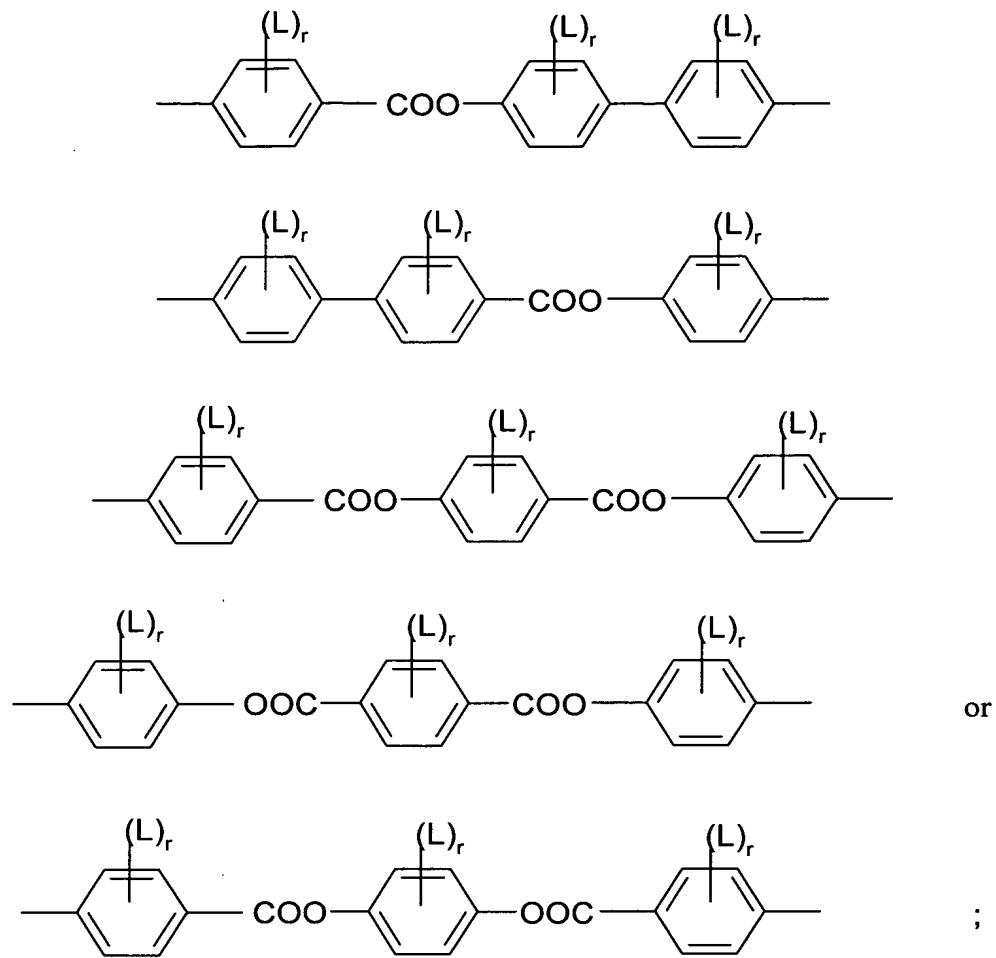
and

R is an alkyl radical with up to 25 C atoms optionally unsubstituted, mono- or polysubstituted by halogen or CN, optionally one or more non-adjacent CH₂ groups are replaced, independently, by -O-, -S-, -NH-, -N(CH₃)-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S- or -C≡C- where oxygen atoms are not linked directly to one another, or R is halogen, cyano or, independently, P-(Sp-X)_n- as defined in formula I.

2. (Currently Amended) A mixture polymer layer according to claim 1, wherein the mixture polymerizable material comprises at least one compound of formula I having one polymerizable group and at least one compound of formula I having two polymerizable groups.

3. **(Currently Amended)** A mixture polymer layer according to claim 1, wherein the mixture polymerizable material comprises at least one compound of formula I wherein the mesogenic group MG is of the formulae:





where L is: F, Cl, CN, or a fluorinated alkyl, alkoxy or alkanoyl group with 1 to 4 C

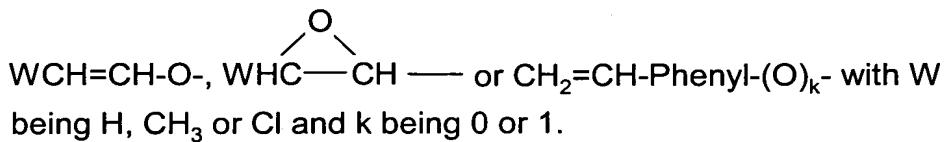
atoms, and

r is 0, 1 or 2.

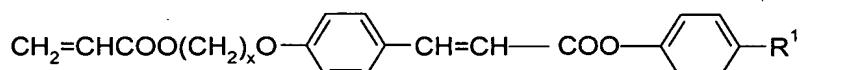
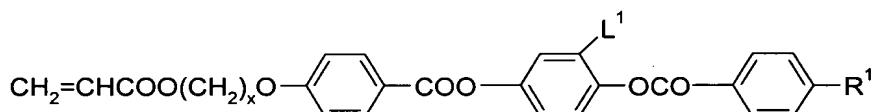
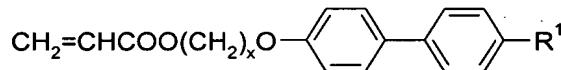
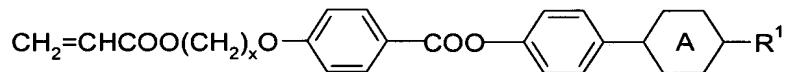
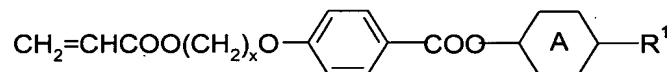
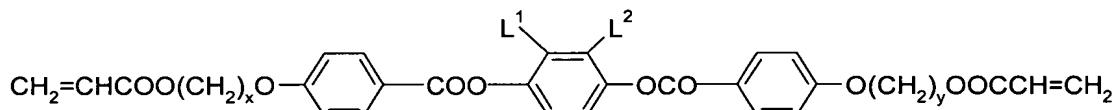
4. (Currently Amended) A mixture polymer layer according to claim 1,

wherein the mixture polymerizable material comprises at least one compound of formula I

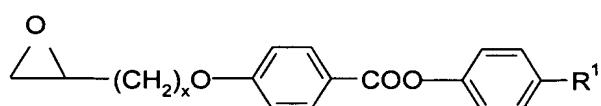
where P is:



5. **(Currently Amended)** A mixture polymer layer according to claim 1, wherein the mixture polymerizable mesogenic material comprises at least one compound of the formulae:



or



;

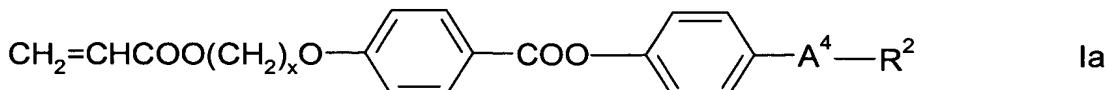
wherein x and y are, independently, 1 to 12, A is a 1,4-phenylene or 1,4-cyclohexylene group, R¹ is halogen, cyano or an optionally halogenated alkyl or alkoxy group with 1 to 12 C atoms, and L¹ and L² are, independently, H, F, Cl, CN, or a halogenated alkyl, alkoxy, or alkanoyl group with 1 to 7 C atoms.

6. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 1, wherein the ~~polymerizable material mixture~~ comprises 1 to 80% by weight of at least one dielectrically positive monoreactive mesogenic compound.

7. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 6, wherein said dielectrically positive monoreactive mesogenic compound has a dielectric anisotropy $\Delta\epsilon > 1.5$.

8. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 6, wherein said dielectrically positive monoreactive mesogenic compound has a polar terminal group of CN, F, Cl, OCF₃, OCF₂H, OC₂F₅, CF₃, OCN or SCN.

9. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 1, wherein the ~~mixture polymerizable material~~ comprises at least one compound of the formula:



wherein x is 1 to 12, R² is C₁₋₁₂ alkyl or alkoxy, and

A⁴ is 1,4-phenylene, trans-1, 4-cyclohexylene or a single bond;

at least one direactive compound of formula I; and at least one dielectrically positive monoreactive compound of formula I.

10. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 1, wherein the ~~polymerizable mesogenic material~~ is a mixture comprises of:

- a1A) 10 to 65%, by weight of at least one compound of formula I having one polymerizable group, wherein R is an alkyl or alkoxy group with 1 to 12 C atoms;
- a1B) 5 to 40% by weight of at least one compound of formula I having one polymerizable group, wherein R is CN, F, Cl or a halogenated alkyl or alkoxy group with 1 to 12 C atoms;
- a2) 2 to 90% by weight of at least one compound of formula I having two polymerizable groups, wherein R has one of the meanings of P-(Sp-X-)_n; and
- b) 0.01 to 5 % by weight of an initiator.

11. **(Currently Amended)** A ~~polymer layer mixture~~ according to claim 1,

wherein the mesogenic or mesogenicity supporting group is a compound of formula:



wherein

A^1 , A^2 and A^3 are, independently, 1,4-phenylene where one or more CH groups optionally replaced by N, 1,4-cyclohexylene, optionally, one or two non-adjacent CH₂ groups

are replaced by O and/or S, 1,4-cyclohexenylene or naphthalene-2, 6-diyl, optionally these groups are unsubstituted, mono- or polysubstituted with a halogen, a cyano, or a nitro group, or an alkyl, alkoxy or alkanoyl group having 1 to 7 C atoms, wherein one or more H atoms may be substituted by F or Cl,

Z^1 and Z^2 are each, independently, -COO-, -OCO-, -CH₂CH₂-, -OCH₂-, -CH₂O-, -CH=CH-, -C≡C-, -CH=CH-COO-, -OCO-CH=CH- or a single bond and
m is 0, 1 or 2.

12. (Currently Amended) A mixture polymer layer according to claim 1, wherein n=1.

13. (Currently Amended) A mixture polymer layer according to claim 1, wherein the mixture polymerizable mesogenic material comprises at least 95% by weight of polymerizable compounds.

14.-17. (Canceled)

18. (New) A mixture according to claim 1, further comprising an organic solvent.

19. (New) A mixture according to claim 18, wherein the organic solvent is toluene.